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REPORT - POR YEAR OF 1 9 2 5

ORE RESERVES

Method Of Calculation

been any hole containing at least seven feet of three percent sine or its equivalent. Thus a hole containing only five feet of 8% In or even one with three feet of 7% In would still be an ero hole. Since lead concentrates are worth, roughly, twice as much as sine, lead is given a value of twice as great as sine where necessary. Thus seven feet of 13 % lead, as a minimum, would supposedly constitute an ere hole, although in general, lead is present in smaller amounts than sine and morely adds in a valuable way to the tempage of sine.

Percentages used in assays are entirely in terms of metallic sine or load. This means, strictly speaking, that the figures presented should represent tons of metal developed. However, no allowance has been made either for waste in pillars or for loss in milling. It is believed that these losses are approximately compensated by the fact that the estimates are based on metallic content, and it is assumed that the tens figured (metal) will equal approximately the

recovery in sulphide.

The aim has been to adopt a uniform method which would give some idea of the quantity of ore developed, and which, with more experience, would lend itself to the use of a constant in different areas which would give a more accurate estimate.

It is assumed from general experience in the district that the average ore body is about thirty-three feet in width. In ore bearing ground holes are usually spaced either 53, 67 or 100 feet apart. In figuring ore devoloped, a single hole in ore is assumed to prove a circular area 53 feet in dismeter or 855 square feet. With two adjacent ore holes 53 feet apart it is assumed that the circles may be connected by tangents giving an area of 1944 square feet.

and judgment must be used in estimating how far to connect by tangents. Several factors are important in determining the question. Among them, the general characteristics of the locality, the strongth of mineralization, character of formation, horizon of the ere, and the thoroughness with which the area has been drilled are all important. Where runs are fairly persistent and have been proved by cross section drilling connections may senstimes be made between holes a few hundred feet apart.

A number of details concerning local areas should be explained. In the Smithfield (Isherwood) area ore occurre ordinarily in open flint ground immediately above the rather dense and well defined Grand Falls Chert. Brill holes often show some ore in the Grand Falls, especially if they have not been carefully eased and ore has had a chance to sift down from above. The practice in estimating in this area has been to study the records and suttings from the holes to determine approximately the upper level of the Grand Falls and, having adopted this as a probable mine level, to ignore all ore, even good assays, below this depth.

In the Wase Camp (Eurlbut lease, etc.) the best assays are from a fractured, delemitized flint and limestone beneath the Grand Palls Chert. The limestone and delemite are soft and pulverise so thoroughly that they yield relatively little suttings, probably enriched in sine. For this reason the area credited to the despest ere is restricted more marrowly than would be necessary elecuhere, and even then it is probable that the estimates should be reagreed with some doubt.

On the Robinson lease where the ere has proved to lie rather more regularly than elsewhere and where drill holes per unit area are relatively fewer, it has been considered justifiable to use a 50 foot circle rather than 53 feet. It is thought possible that this could be used also in same other cases, possibly for the deep ere on the Yaryan lease, for

instance, but this has not been done.

Some question may be raised as to the number of subic feet of rock assumed to equal a ton, since the figure used varios from 12.5 to 15. This distinction has been based on the experience of some other companies in figuring reserves in this district and the figure adopted has been chosen with reference to the relative amount of spenings and pore space in different areas.

How near the estimates come to working out in practice may be tested partially in the case of the Isberwood mine for which figures are presented herewith. This estimate represents the application of the above method to an ere body that was fairly completely drilled, after the method had been applied to several others. In this case it appears now that the estimate probably was about ten percent too high.

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ONE RESERVES

According to estimates which are believed to be conservative, yet fairly in accord with practical expectations, the Company had developed on January 1st, 1926 very nearly 80,000 tons of concentrates, distributed among sixteen leases as shown in detail on the accompanying table. Of this amount approximately 1,500 tons on four leases (#562 - 755 - 743 and 766) is to be regarded as unminable because occurring in small deposits not conveniently situated for operation.

These leases probably will have to be disposed of during the coming year. Because of similar difficulties it has been necessary during the past year to abandon small tennages of ore which had been developed on three other leases (#625, Danglado; #682, Lyorla; #808, Abrams).

The figures given are to be regarded as estimates of ore fairly proved and by no means measure the limits of possible or even probable ore on many of the leanes. Complete prospecting and actual mining will very likely yield from two to three times as much ore as is given in these estimates.

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ORLI HUMLIRVINI SUISGARY - 1924 - 1925

	TOUS CONCENTRATES			
Lenso	Developed Janalst.	Developed 3	Developed Jan.lat.	
		Area X	APOR Y	
393 - Foley	2028	នា១	• .	
396 - Jarrett	81 .25	39 39		
117 - Yeryen	60	710		
194 - Ellis	639	2149	•	
195 - Rurlbut	1049	2245		
562 - Chanute	489	876	•	
592 - Carter	75	75		
554 - Martin	1190 (sublease)	(a) SOS		
00 - Ishorwood	8017	1000		
605-646-Onstott &			• .	
Hunt-Thomas	_		10 85	
724 - Robinson	1000	BC97	2000	
735 - Roth	2000	111	•	
742 - MoCoy		430		
743 - Mullen	<u> </u>	2895		
166 - Phight	_	198		
836 - Sulliven	-	*	1695	
SOO - CHEEKTON	•		2000	
Total	17692	25767	E460	
Grand Totals	17692	29,847		
				
	RECIONAL SUMMARY	-		
	REGIONAL SUBJECT Somery let, 198	25 Samery	lst,1926.	
Forthern Fields, Jop Southern Field, Pic	Jamuary 1st, 191	25 #armery 9.6	76	
Borthern Fields, Jop Southern Field, Pic	Jamery 1st, 191	9.6 19,6	76	
Forthern Fields, Jop Southern Field, Pic	January 1st, 191 lin to Waco 11,539 hor Area 6,153	9.6 19.6	76	